

Safety Data Sheet for Corona Test Pen (EG) Nr. 1907/2006 (REACH)

1. Name of substance, preparation and company

Information about the product:

Commercial name

Corona Test with approx. 38 mN/m

Company

Fischer Test Tinten

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Contact Person

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2. Chemical analysis/information about the ingredients

Chemical characterisation Solvent mixture with colouring agent and additives

Dangerous ingredients which are injurious to health within the meaning of Commission Directive 67/548 / EEC on dangerous substances:

CAS 64-17-5	Ethanol	75-90%	F
EINECS:200-578-6			R11
CAS 989-38-8	C.I. Basic Red 1	<5%	Xn, N
EINECS:213-584-9			R22-41-51/53
CAS : 141-78-6	Ethylacetat	<2,5%	Xi, F;
EINECS 205-500-4			R11-36-66-67

Additional information:

The text of the mentioned particular hazards can be learnt from side 16.

3. Possible Hazards

Hazard designation

F – highly flammable

Information pertaining to particular dangers for man and environment:

R 11 highly flammable

R52/53 injurious to water organism, can have long-term injuria effects in water



Hazard Characteristics:

H225 H318 H411 , P 210 P280 P305,355,338: P370,378, P 403 + P235, P 273

4. First aid measures

General information: when any symptoms are appearing or in all cases of doubt seek medical advice.

After skin contact: Remove contaminated clothing immediately. Wash skin thoroughly with soap or use recognized skin cleanser. Don't use solvents or thinner

After eye contact.: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.

After inhalation: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious, place in recovery position and seek medical advice.

After swallowing: If accidentally swallowed obtain immediate medical attention. Keep at rest. Don't induce vomiting

5. Fire fighting measures

Suitable extinguishing agents: Foam (alcohol resistant), CO₂, powders, water spray if applied under high pressure.

Special hazards: Fire will produce dense black smoke. Exposure to hazardous decomposition products may cause a health hazard. Suitable respiratory protective equipment independent from ambient air may be required. Cool closed containers exposed to fire with water spray

Additional information: Collect run-off from fire fighting.

6. Accidental release measures

Person-related safety precautions:

Keep away from sources of ignition. Ensure supply of fresh air. Avoid breathing vapours. Observe the safety instructions in section 7 and 8.

Measures for environmental protection:

Don't allow to enter drains. If the product contaminates lakes or the canalisation inform the respective authorities.

Measures for cleaning/collection:

Contain and collect spillage with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in containers for disposal according to local regulations. Clean preferably with a detergent. Avoid use of solvents.

7. Handling and storage

Handling: Information for safe handling:

Prevent the creation of flammable or explosive concentrations of vapour and avoid vapour concentrations higher than maximum workplace concentrations. The product should only be used in areas from which all naked lights, fire and other sources of ignition have been excluded. When transferring from one container to another apply earthing measures and use conductive flexible hoses (see directives relatives to the avoidance of ignition hazards due to electrostatic charge ZH 1/200. Preparation may charge electrostatically. No sparking tools should be used. Avoid skin and eye contact. Do not eat, drink and smoke while working in application area. For personal protective equipment see section 8. Comply with statutory health and safety regulation. Avoid breathing vapours. Information about protection against explosions and fires: solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixture with air.

Storage: Requirements to be met by storerooms and containers: Electrical installations/working materials must comply with the technological safety standards, e.g. DIN 57165/VDE0165 Electrical working materials in explosion hazard areas. Storage rooms in which filling operations take place (EX-zone) must have a conducting floor. The bleeder resistance must be lower than 10High 8 ohm (see section 6.4ZH 1/200). Keep containers tightly closed. Don't empty containers with pressure, no pressure vessel. Smoking prohibited. No admittance except on authorized persons. Close carefully open container and store it upright in order to avoid any leakage. Information about storage in one common storage facility: Keep well away from oxidizing agents and strongly acid or strongly alkaline materials. Further information about storage conditions: Always keep in containers of the same material as the original one. Store at dry, well ventilated place. Keep away from heat and direct sunlight. Exclude sources of ignition. Observe label precautions. Store in accordance with the particular national regulations concerning storage of combustible liquids (VbF). Store in accordance with the particular national regulations concerning water pollution (WHG) and the regional regulations concerning storage of water hazards substances (VawS).

8. Exposure controls and personal protective equipment

Additional information about design of technical systems: if relevant, apply technical measures to comply with the occupational exposure limits. This should be achieved by a good general extraction and – if practically feasible- by the use of a local exhaust ventilation. Components with critical values that require monitoring at the workplace: numerical data – if specified – are taken from the valid national lists (such as TRGS 900 for Germany)

64-17-5 Ethanol (75-90%)

MAK 960 mg/m³, 500ml/m³ Y;DFG

141-78-6 Ethylacetat (<2,5%)

MAK 1500 mg/m³, 400ml/m³ Y; DFG

Personal protective equipment:

Eye protection	Use safety eyewear designed to protect against splash of liquids.
Protection of hands	Suitable are chemical protective gloves proved according to EN 34. As well for the short time contact (e.g. splash protection) as for the long time contact (e.g. cleansing work) with the ingredients existing in printing ink and usual cleanser is recommended a protective glove made from LLDPE, thickness 0,06 mm. According to the producer information the standard values referring to the penetration time of the used ingredients are higher than 480 min. We recommend you to make a hand protection plan depending on the special activities in your company. Further advices can be found in the documentations of the federal Association Hand Protection no. 6 and 9, and the occupational accidents association of printing and paper converting (528.1, 525.2, 531.3, 531.5).

Body protection	Personal should wear antistatic footwear Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire. The skin should be washed after contact
Respiratory protective:	If the occupational exposure limits can't be met in exceptional cases, suitable respiratory protective equipment should be worn only for a short period of time.

9. Physical and chemical properties

Form:	fluid
Colour:	red
Boiling point/Boiling range:	78° C
Flash point	<= 21° C
Ignition temperature	400° C
Critical value for explosion	lower: 3,5 Vol%; upper 15 Vol%
Steam pressure at 20°C	67 hPa
Density	Not defined
Solubility in/ Miscibility with water	Solvent fully miscible with water

10. Stability and reactivity

Thermal decomposition / conditions to be avoided	Stable under recommended storage and handling conditions (see section 7/).
Materials to be avoided	Keep away from oxidizing agents, strongly acid and strongly alkaline materials in order to avoid exothermic reactions.
Hazards products of decomposition	Exposition to high temperatures may produce hazards decomposition products such as: carbon dioxide, carbon monoxide, smoke and oxides of nitrogen (Nox).

11. Toxicological information

The preparation is classified according to the conventional method (calculation method of the regulation concerning hazardous substances resp. of the EEC-Directives 88/379/EEC). Inhalation of solvent particles above the occupational exposure limits may cause health hazards such as: irritation of mucous membranes and respiratory organs, hepatic and renal disease, CNS disorders. Signs and symptoms: headache, dizziness, tiredness, muscular weakness, anaesthetic effect and in exceptional cases unconsciousness. Repeated or prolonged contact with the product may cause removal of natural fat from the skin resulting in a driving-out of the skin. The product may penetrate the body through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12. Ecological information

The product should not be allowed to enter waters, sewerage systems and soil.

Ecotoxicological effects: remarks, injurious to fish.

Additional ecological information: general information, water hazardous class 3: strongly hazardous injurious to water organism.

13. Disposal considerations

Product: recommendation: don't allow to enter sewerage systems.

Waste key number according to European waste products catalogue (recommendation for pure product): 08 03 12 printing inks waste products which contain hazardous substances

Uncleaned packing: recommendation:

Emptied one-way containers should be supplied to scrap utilisation resp. recycling. The disposal of not emptied containers has to be assured.

14. Transport information

Transport only in accordance with the transport regulations for road (ADR), rail (RID), sea (IMDG) and air (ICAO / IATA).

The test pens are dispatched in PP tubes with a filling volume of 7 ml. If these preparations are transported in a suitable packing, they are not classified as dangerous goods according to GGVS/ADR, if the conditions according to Rn. 2301 a ADR rep. Section 18 of the general introduction of IMDG are respected.

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic):

ADR/RID-GGVS/E class	3 (F1) inflammable fluid materials
Kemler-number	33
UN-Number	1210
Packing group	II
Designation of goods	3
Bezeichnung des Gutes	1210 printing ink (Ethanol (Ethylalcohol))

Maritime transport IMDG/GGV Sea

IMDG/GGV See-class	3
UN	1210
Label	3
Packing group	II
EMS-Number	F-E,S-D
MFAG	311
Correct technical name	Printing Ink (Ethanol, Ethylalcohol))

Air transport ICAO-TI and IATA-DGR

ICAO/IATA-class	3
UN/ID-Nummer	1210
Label	3
Packing group	II
Correct technical name	Printing Ink (Ethanol)

15. Regulatory information**Designation according to ECC guidelines:**

Code letter	F
Risk phrases	R 11 Highly flammable 52/53 Injurious to water organism, may have long-term injurious effects in water.
Safety phrases	7/9 Keep container tightly closed at a well ventilated place 16 Keep away from sources of ignition-No smoking 29/35 Don't allow to enter sewerage system, waste products and containers have to be eliminated in a safe way.

National regulations:

Classification according to VbF: highly flammable

Water hazardous class:

3 (self classification according annex 4 VwVwS) strongly hazardous product for water.

16. Other information's

The information of this safety data sheet is based on the present state of our knowledge and corresponds to the valid EU and national laws.

The users working conditions however are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this safety data sheet is meant as a description of safety requirements of our product; it is not to be considered as a guarantee of the products properties. The information in this safety data sheet is required pursuant to § 14 of the regulation concerning hazardous substances of October 31, 200.

Relevant Risk Phrases

- 11 highly flammable
- 22 injurious to health when swallowed
- 36 irritating for eyes
- 41 Danger of serious damage to eyes
- 51/53 Toxic for water organism may have long term injurious effects in water
- 66 repeated contact can cause chapped and brittle skin
- 67 vapours can cause sleepiness and dizziness